

TECHNICAL DATA SHEET

Recombinant Mouse beta-NGF (Carrier-free)

Catalog Number: 21-7008

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse beta-NGF (Carrier-free)

DESCRIPTION

Beta-NGF (Nerve Growth Factor) is a neurotrophic factor that is involved in the development of sympathetic and some sensory neurons in the peripheral nervous system. Beta-NGF also plays a role in the maintenance of neurons in the adult central nervous system. In addition to these roles in the nervous system, beta-NGF is also implicated in regulation of immune system cells.

MOLECULAR MASS

The functional form of murine beta-NGF is a noncovalently disulfide-linked homodimer, of two 13.4 kDa polypeptide monomers (240 total amino acid residues). The three disulfide bonds are required for biological activity.

AMINO ACID SEQUENCE

SSTHPVFHMG EFSVCDSVSV WVGDKTTATD IKGKEVTVA EVNINNSVFR QYFFETKCRA SNPVESGCRG IDSKHWNSYC
TTTHTFVKAL TTDEKQAAWR FIRIDTACVC VLSRKATRRG

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Human

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is ≤ 1.0 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁶ units/mg.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Chemotaxis; Diabetes / Weight Regulation; Inflammation; Neurobiology; Wound Healing; Stem Cells & Differentiation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Varon S, Hagg T, Manthorpe M. 1991. Adv Exp Med Biol. 296: 267-276. Micera A, Puxeddu I, Aloe L and Levi-Schaffer F. 2003. Cytokine Growth Factor Rev. 14(5): 369-374.

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